PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNATI	ONAL PRELIMINARY EXAMINA	TION REPORT
	(PCT Article 36 and Rule 70)	
Applicant's or agent's file reference H02040P		ation of Transmittal of Interr Examination Report (Form PCT/IPE
International application No. PCT/JP2003/004634	International filing date (day/month/year) 11 April 2003 (11.04.2003)	Priority date (day/month/year) 26 April 2002 (26.04.200
International Patent Classification (IPC) or r F16H 61/42, 61/40	national classification and IPC	
Applicant HITACH	I CONSTRUCTION MACHINERY (CO., LTD.
This report is also accompar amended and are the basis for 70.16 and Section 607 of the	sheets, including this cover some depth of the description of this report and/or sheets containing rectificate Administrative Instructions under the PCT).	on, claims and/or drawings which ha
This report contains indications rel	ating to the following items:	
I Basis of the report		
II Priority		
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
IV Lack of unity of invention		
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v Reasoned statemen	nt under Article 35(2) with regard to novelty, in anations supporting such statement	ventive step or industrial applicabili
VI Certain documents	s cited	ventive step or industrial applicabili
VI Certain documents VII Certain defects in	s cited the international application	ventive step or industrial applicabil
VI Certain documents VII Certain defects in	s cited	ventive step or industrial applicabil
VI Certain documents VII Certain defects in	s cited the international application	ventive step or industrial applicabil
VI Certain documents VII Certain defects in	s cited the international application	
VI Certain documents VII Certain defects in VIII Certain observatio	the international application ons on the international application Date of completion	
VI Certain documents VII Certain defects in VIII Certain observation Date of submission of the demand	the international application ons on the international application Date of completion 1.11.2003)	of this report

International application No.

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PCT/JP2003/004634

I. Basi	is of the re	port					
1. Wit	th regard to	the elements of the international application:*					
	the inte	the international application as originally filed					
X	the desc	the description:					
	pages	1,3-16	, as originally filed				
	pages		, filed with the demand				
,	pages	2,2/1, filed with the letter of	09 February 2004 (09.02.2004)				
X	the clai	ms:					
	pages		, as originally filed				
	pages	, as amended (togethe					
	pages		, filed with the demand				
	pages	1-11 , filed with the letter of	09 February 2004 (09.02.2004)				
X	the dra						
الحا	pages	1 14	, as originally filed				
	pages		, filed with the demand				
	pages	, filed with the letter of					
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╽└┈	-	ence listing part of the description:					
1	pages pages						
	pages	, filed with the letter of					
1							
3. W	the lar the lar the lar or 55 With regard reliminary contai	Iguage of a translation furnished for the purposes of international search (under Ruguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminar	which is: Rule 23.1(b)). ry examination (under Rule 55.2 and/				
	- -	hed subsequently to this Authority in written form.					
1 [furnished subsequently to this Authority in computer readable form.						
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in international application as filed has been furnished.						
	-	tatement that the information recorded in computer readable form is identical furnished.	al to the written sequence listing has				
4. [The a	the claims, Nos the drawings, sheets/fig					
5.		eport has been established as if (some of) the amendments had not been made, if the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go				
in ar	this repo nd 70.17).	sheets which have been furnished to the receiving Office in response to an invita as "originally filed" and are not annexed to this report since they do	not contain amendments (Rule 70.16				
1 ** A	ny replacei	nent sheet containing such amendments must be referred to under item 1 and ann	nexea to this report.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP03/04634

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement		,		
Novelty (N)	Claims	1-11	YES	
	Claims		NO	
Inventive step (IS)	Claims		YES	
	Claims	1-11	NO	
Industrial applicability (IA)	Claims	1-11	YES	
	Claims		NO	

2. Citations and explanations

List of documents cited in the ISR

Document 1

JP, 2001-304409, A (Komatsu Ltd.), October 31, 2001 (10.31.01), claims, (Family: none) Document 2

JP, 2000-074213, A (Shin Caterpillar Mitsubishi Ltd.), March 14, 2000 (03.14.00), claims, (Family: none)

Document 3:

JP, 1-116371, A (Mitsubishi Heavy Industries Ltd., MHI Sagami Hai Tec K.K.), May 9, 1989 (05.09.89), page 2 upper right column lines 5-11, (Family: none)

Document 4

JP, 6-193730, A (Hitachi Construction Machinery Co., Ltd.), July 15, 1994 (07.15.94), paragraph [0050], Fig. 5, (Family: none)

- (1) The inventions described in claims 1-5, 7, 10 and 11 do not appear to involve an inventive step based on document 1 or 2 cited in the ISR. Documents 1 and 2 describe art for decelerating a traveling motor by increasing capacity of the traveling motor when a rotational speed of the traveling motor faster at or above a prescribed value is detected, in order to prevent over-speed of the traveling motor. The prescribed value of said rotational speed and degree of increase in motor capacity can be determined as appropriate by a person skilled in the art. Further, it would be easy for a party skilled in the art to conceive of restoring normal control when the motor speed that had exceeded a prescribed value falls below the prescribed value due to such motor capacity control.
- (2) The invention described in claim 6 does not appear to involve an inventive step based on documents 1, 2 and 3 cited in the ISR. Document 3 describes art for gradually controlling traveling motor capacity. Adopting the art described in document 3 to the traveling motor control described in document 1 or 2 to conceive of the invention described in claim 6 would be easy for a person skilled in the art.
- (3) The invention described in claim 8 does not appear to involve an inventive step based on documents 1, 2 and 4 cited in the ISR. Document 4 discloses the technical idea of increasing control force by increasing relief pressure of hydraulic oil from the traveling motor in accordance with traveling speed, i.e., with traveling motor rotational speed. It would be easy for a person skilled in the art to conceive of the invention described in claim 8 by applying the technical idea described in document 4 to the deceleration control of the traveling motor described in document 1 or 2.

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Supplemental Box	C
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(10 oc used wi	nen the space in any of the	e preceding boxes is	not sufficient)			
Continuation	of Box V:					
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Form PCT/IPEA/409 (Supplemental Box) (July 1998)